

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/002459 A1**

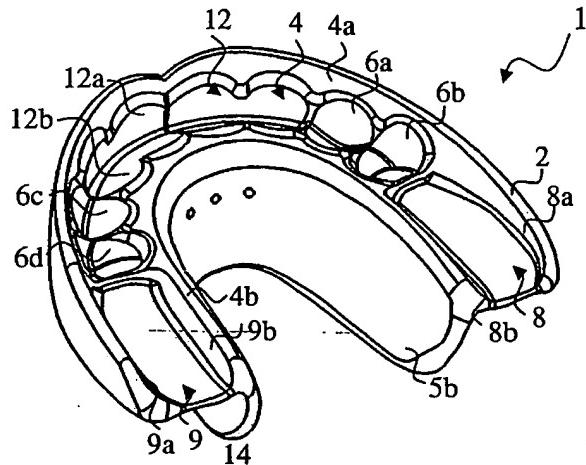
- (51) International Patent Classification<sup>7</sup>: **A61C 7/08**
- (21) International Application Number:  
**PCT/FI2004/000433**
- (22) International Filing Date: 7 July 2004 (07.07.2004)
- (25) Filing Language: Finnish
- (26) Publication Language: English
- (30) Priority Data:  
20031037 7 July 2003 (07.07.2003) FI
- (71) Applicant (*for all designated States except US*): LM-INSTRUMENTS OY [FI/FI]; PL 88, FI-21601 Parainen (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): KESKI-NISULA, Katri [FI/FI]; Rantakatu 11 A 14, FI-65100 Vaasa (FI). VARRELA, Juha [FI/FI]; Piispankatu 1, FI-20500 Turku (FI).
- (74) Agent: SEppo LAINE OY; Itämerenkatu 3 B, FI-00180 Helsinki (FI).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

[Continued on next page]

(54) Title: OCCLUSION GUIDANCE APPLIANCE



WO 2005/002459 A1

(57) Abstract: An odontological device and device series to guide an individual's occlusion and a method to be used in choosing an occlusion guidance appliance device to be used in orthodontic treatment. This kind of device contains a U-shaped arch with a lower surface on the side of the lower jaw and a higher surface on the side of the upper jaw, and in both of which there are concaves in which to place the individual's teeth, and where the bottoms of the concaves form the bridge separating the concaves from one another. According to the invention, the hollows designed for the back teeth consist of uniform compartments, which start from the second premolar and continue towards the molars at least to the area where the second permanent molar will erupt. The presented device is suitable for use in all dental arch developmental phases. In particular, because of the advantageous forms of the device are applicable to all kinds of malocclusions, a large stock of different devices for people of different ages and with different types of occlusion guidance appliance are not required at the dentist's surgery.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*